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MACHINE-TOOL INDUSTRY ANNOUNCES NEW TECHNIQUES, PRODUCTS

SOLVE PROBLEM OF CHIP REMOVAL -- Leningradskaya Pravda, No 261, 4 Nov 49

Chip removal has long been a major problem among lathe operators, particularly in high-speed lathe work.

A. P. Ionov of the Automatics Plant came to the conclusion that the shape of the cutter would have to be changed.

It was determined that the front edge of the cutter should be sloped and the hard-alloy tip should be brazed on vertically. The lune which is formed will not adversely affect the stability of the blade. The positive front angle assures a good cut; the greater height of the rear edge over the cutting edge creates a barrier against which the chips break.

Ionov made a rough drawing of the cutter. V. A. Bogolepov made the necessary calculations and perfected the design. The cutter was manufactured.

When this cutter is applied to the metal, there is no longer an endless ribbon of shavings; instead, the chips bounce off in small pieces.

NEW HORIZONTAL BORING MACHINE -- Izvestiya, No 248, 20 Oct 49

The Leningrad Machine-Tool-Building Plant imeni Sverdlov has developed a new-type horizontal universal machine tool for boring steam cylinders. At the same time, the plant is carrying on series production of horizontal boring machines which machine parts at a rate of 2,000 revolutions per minute. At a recent industrial exhibit in Poland, American and Belgian machines of the same type proved capable of only 1,600 revolutions per minute.

The Leningrad Machine-Tool-Building Plant imeni Il'ich and the Automatics Plant have put out automatic and semiautomatic machines for the roller-bearing and other industries.

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TESTING MACHINES -- Vechernyaya Moskva, No 247, 17 Oct 49

The Experimental Plant for Testing Machines and Scales is ready to begin series production of testing machines for determining the durability of metals, dynamometers for measuring the traction power of machines and rolling stock, and scales reading up to one ton.

PRODUCE GLASS-GRINDING MACHINES -- Vechernyaya Moskva, No 247, 17 Oct 49

The "Steklomashina" Plant has completed the Five-Year Plan for gross production. Output has increased fourfold in comparison with the first year of the postwar Five-Year Plan, and output per square meter of production area, fivefold. The plant has turned out many new, highly productive machines and automatics for the glass industry, including an automatic 12-spindle machine for grinding drinking glasses. It has also produced two machines for grinding and polishing mirrors.

MODERNIZE STONE-MILLING MACHINE -- Kommunist, No 248, 20 Oct 49

In 1949, the Plant imeni Dzerzhinskiy saved 48 tons of nonferrous metals and 78,000 kilowatt-hours of electric power.

The plant is working on a modernized stone-milling machine, the first model of which is to be produced by 7 November.

INSTRUMENT PLANT ADOPTS CONVEYER METHOD -- Kommunist, No 248, 20 Oct 49

The Moscow Instrument Plant has put the production of electrical measuring instruments on the conveyer method. All operations, from the stamping of parts to the packing of the finished product, are done by the continuous production method. By its own efforts, the plant has installed seven conveyers and four transport lines, totaling more than 300 meters. This mechanization has cut the production cycle 13 times improved the quality of the product, and raised the cultural level of the plant. The productivity of labor has risen 62 percent since the beginning of the year. The plant's Stakhanovite assembly brigade recently won a competition conducted by the Ministry of Machine and Instrument Building.

COMPLETES YEAR AND FIVE-YEAR PLANS -- Kommunist, No 275, 23 Nov 49

On 26 October 1949 the Yerevan Machine-Tool-Building Plant imeni Dzerzhinskiy completed the 1949 plan for production of machine tools. On 21 November the plant completed the Five-Year Plan.

CUT ROLLER MACHINE TIME -- Trud, No 276, 23 Nov 49

Flange gears at the Staro-Kramatorsk Machine-Building Plant imeni Ordzhonikidze are now being machined on latnes at a speed of 360 meters per minute, with a depth of cut of one millimeter at a feed speed of 0.2 millimeter per minute. The bottom roller for a three-roller plate-straightening machine is not machined in 15 hours, rather than 24 as formerly. Thirty-five metal-cutting machines are now operating by high-speed methods.

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NEW THREAD-CUTTING TOOL -- Mashinostroyeniye, Moskva, No. 7, 27 Oct 49

The "Proletarskiy Trud" Plant has successfully tested a new automatic high-duty thread-cutting machine tool, designed by E. Eltekov. This model surpasses all existing types in respect to operating qualities and almost doubles production. It turns out 18 screws per minute.

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